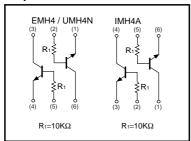
General purpose (dual digital transistors) EMH4 / UMH4N / IMH4A

Features

1) Two DTC114T chips in a EMT or UMT or SMT package.

Equivalent circuits



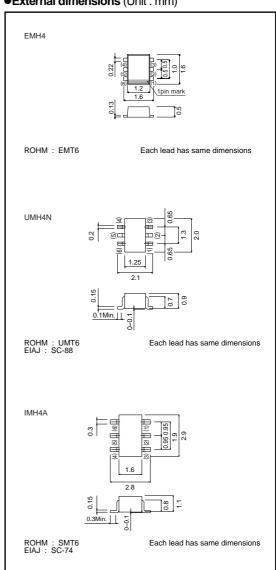
● Package, marking, and packaging specifications

Туре	EMH4	UMH4N	IMH4A
Package	EMT5	UMT6	SMT6
Marking	H4	H4	H4
Code	T2R	TN	T110
Basic ordering unit (pieces)	8000	3000	3000

● Absolute maximum ratings (Ta=25°C)

Parameter		Symbol	Limits	Unit	
Collector-base voltage		Vсво	50	V	
Collector-emitter voltage		VCEO	50	V	
Emitter-base voltage		VEBO	5	V	
Collector current		lc	100	mA	
Power dissipation	EMH4 / UMH4N	Pd	150(TOTAL)	mW *1	
	IMH4A] ''	300(TOTAL)	*2	
Junction temperature		Tj	150	°C	
Storage temperature		Tstg	-55 to +150	°C	

●External dimensions (Unit : mm)



●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Collector-base breakdown voltage	ВУсво	50	-	-	V	Ic=50μA
Collector-emitter breakdown voltage	BVceo	50	-	-	V	Ic=1mA
Emitter-base breakdown voltage	BVEBO	5	-	-	V	Iε=50μA
Collector cutoff current	Ісво	-	-	0.5	μΑ	Vcb=50V
Emitter cutoff current	ІЕВО	-	-	0.5	μΑ	V _{EB} =4V
Collector-emitter saturation voltage	VCE(sat)	-	-	0.3	V	Ic/I _B =10mA/1mA
DC current transfer ratio	hfe	100	250	600	_	Vce=5V, Ic=1mA
Transition frequency	f⊤	-	250	_	MHz	Vce=10V, Ie=-5mA, f=100MHz *
Input resistance	R ₁	7	10	13	kΩ	-

^{*}Transition frequency of the device.

•Electrical characteristics curves

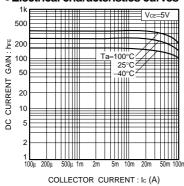


Fig.1 DC current gain vs. collector

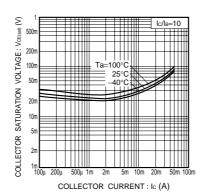


Fig.2 Collector-emitter saturation voltage vs. collector current

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